PRECISION ENVIRONMENTAL SERVICES, INC.

BULK ANALYSIS REPORT

Page #: 2 of 2

Client: Alaska Copper Works

Report #: 796380

Project: 4700 S. Colorado

Report Date: 7-24-96

P.O. #: M54000

Date Analyzed: 7-24-96

Client/Lab	Sample Location	Asbestos	Other
Number	Description	Type / %	Material
796380 M54000	South pit, main bay, lt. brown chalky insulation material with fibers & cloth.	Amosite 10-15%	binder, soot, cellulose (1-3%)

NVLAP Accredited LAB #1631 PAT #11567

BULK SAMPLE ANALYSIS REPORT

CLIENT: Alaska Copper Works **REPORT #:** 796380

628 Hanford St.

REPORT DATE: 7-24-96

Seattle, WA 98138

DATE RECEIVED: 7-24-96

PROJECT: 4700 S. Colorado P.O. #: M54000

DATE ANALYZED: 7-24-96

PAGE: 1 of 2

Attached are the results of analysis of 1 bulk sample submitted for asbestos identification, Lab ID #796380.

The sample was analyzed in accordance with method EPA-600/M4-82-020: "Interim Method for the Determination of Asbestos in Bulk Samples".

The sample was initially examined under a Nikon SMZ - 2T stereoscopic microscope at a magnification of 10X to 60X. Fibrous material was examined for morphology and content.

Representative fibers from each sample were immersed in a fluid with a known refractive index. The specimens were examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the The observed optical characteristics include angles extinction, sign of elongation and refractive indices.

Separate layers of inhomogeneous samples are analyzed and reported separately. Unless otherwise stated, samples were quantified by calibrated visual estimation (CVES).

The samples analyzed in this report were provided by third parties not subject to control by PRECISION ENVIRONMENTAL SERVICES Consequently, the results presented represent microscopic examinations in PES laboratory facilities and PES makes no representation as to sample collection techniques or procedures. Test results pertain only to the samples submitted for analysis.

This report can not be represented by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

This report shall not be reproduced except in full without written permission of the laboratory.

Analyst - William F. Golloway

Samples Collected by - Third party.

Reports Reviewed by -(Approved Signatory)

PRECISION ENVIRONMENTAL SERVICES, INC.

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SAMPLES SUBMITTED BY:		SAMPLE		SAMPL	-		
Company name: Alaskan Coppen Works		NUMBER		DESCRIPT			
Address: 628 HANDON & ST		m 54000	Poss.	IIns-Hat	40,3 An	ould Pi	51~a
City, State, Zip: Seattle GA 98134						Ų	~
Phone: (26) 382-8379 Fax: (26) 382-4309		N					
Contact: GERAG A. Thampson							
Job Name: 4700 Colorado							
Job Number:		127					
SAMPLE TYPE ANALYSIS REQUESTED							
AIR Phase Contrast Microscopy		2					**************************************
BULK Polarized Light Microscopy					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Other							
RUSH Please Frax Res. Hs							
24 HOUR		ine Z					
3-5 WORKING DAYS		2	· · · · · · · · · · · · · · · · · · ·				
OTHER (SPECIFY DATE)		No.				· · · · · · · · · · · · · · · · · · ·	
RELINQUISHED BY: AM G. J.	DATE:	7-24-96		TIME:	8:43	2	
RECEIVED BY:		7.21.8			08:43		
X		- Andrew					
* NOTE: UNLESS OTHERWISE REQUESTED SAMPLES WILL BE	ARCHIVED	FOR 90 DAYS.					

AKC-0012075

PRECISION ENVIRONMENTAL SERVICES, INC.

Taganan ang santanan ang santana Santanan ang santanan ang santan	CHAIN OF	CUSTODY			
SAMPLES SUBMITTED BY: Company name: Alaskan Coppen Works Address: 678 Handon & ST City, State, Zip: Seattle wa 98134 Phone: (206) 382-8379 Fax: (206) 382-4309 Contact: GERAD A. Thompson Job Name: 4700 Colorado		SAMPLE NUMBER M 54000	LAB ID SAMPLE <u>DESCRIPTION</u>	*? Yes No #: Around Piping	
Job Number:					
SAMPLE TYPE ANALYSIS REQUESTED AIR Phase Contrast Microscopy BULK Polarized Light Microscopy					
Other					
TURN AROUND TIME RUSH 24 HOUR 3-5 WORKING DAYS					
OTHER (SPECIFY DATE)					
RELINQUISHED BY:	DATE:	7-24-96	TIME:8.44	3	
RECEIVED BY:	DATE:	1-29-8	TIME: OF,	47	
* NOTE: LINI ESS OTHERWISE REOLIESTED SOMPLES WILL BE	ARCHIVET	FOR 90 DAVS			